

**AMENDMENTS TO THE ABSTRACT**

Please replace the current Abstract of the Disclosure with the one attached to this Amendment.

## ABSTRACT OF THE DISCLOSURE

A method and apparatus for gray level dynamic switching. The method is applied to driving a display with at least one pixel. In the method of the present invention, a gray level sequence  $S_G$  is provided.  $S_G$  sequentially represents two or more desired gray levels  $G_o(1), \dots, G_o(T)$  of the pixel at consecutive time frames  $1, \dots, T$  and comprises a current gray level  $G_o(t)$  and a previous gray level  $G_o(t-1)$  corresponding to time frames  $t$  and  $t-1$ , respectively. Then, the pixel is driven with an optimized driving force  $V_d(t)$  to change the pixel forward to a state corresponding to  $G_o(t)$  according to  $G_o(t)$  and  $G_o(t-1)$ . In the present invention, the optimized driving voltage  $V_d(t)$  is determined by equations of  $V_d(t) = V_o(t-1) + ODV$  and  $V_d(t) = a \times G_d(m)^3 + b \times G_d(m)^2 + c \times G_d(m) + d$ , wherein the voltage  $ODV$  is a minimum voltage capable of obtaining one gray level transition in a determined response time.